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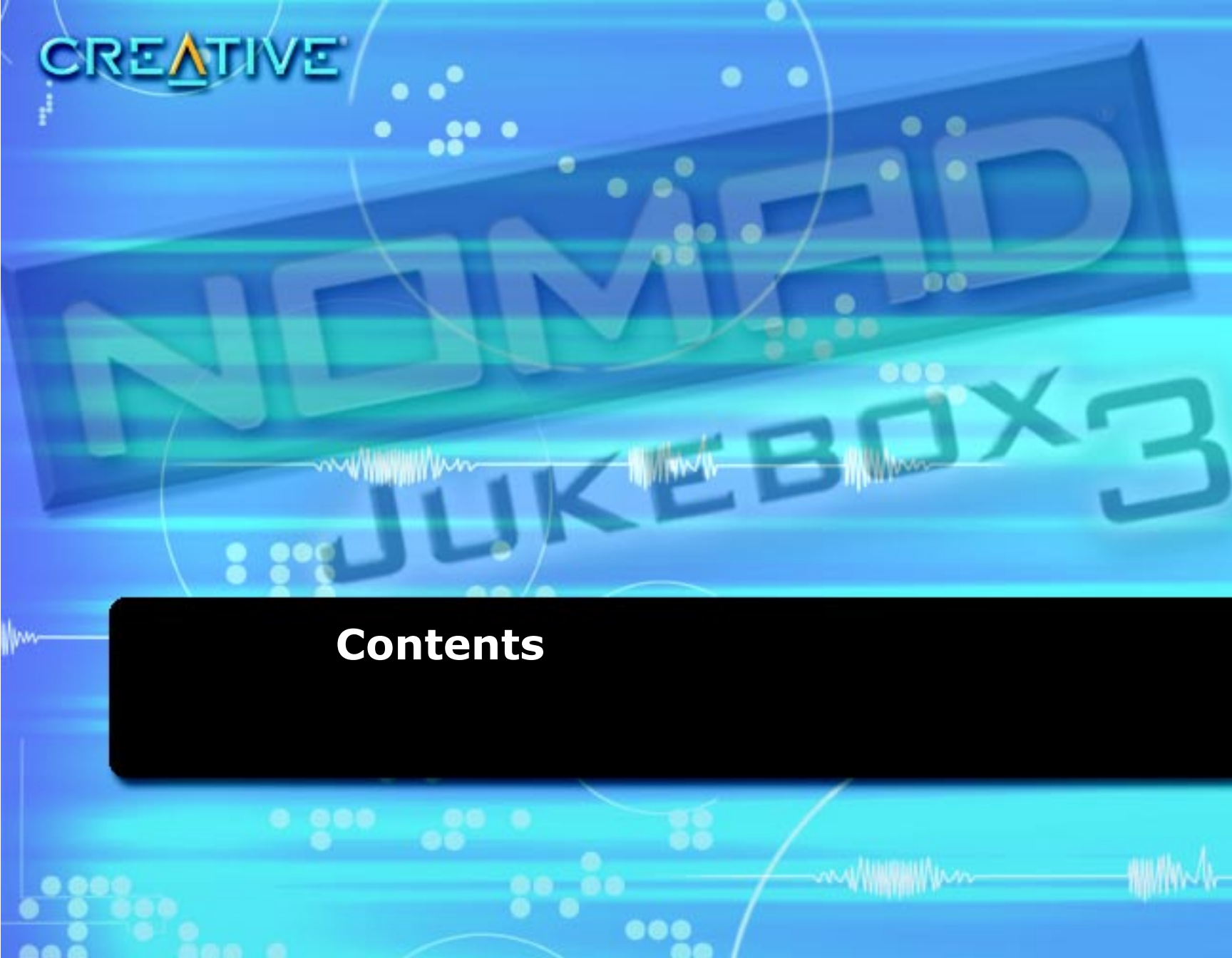
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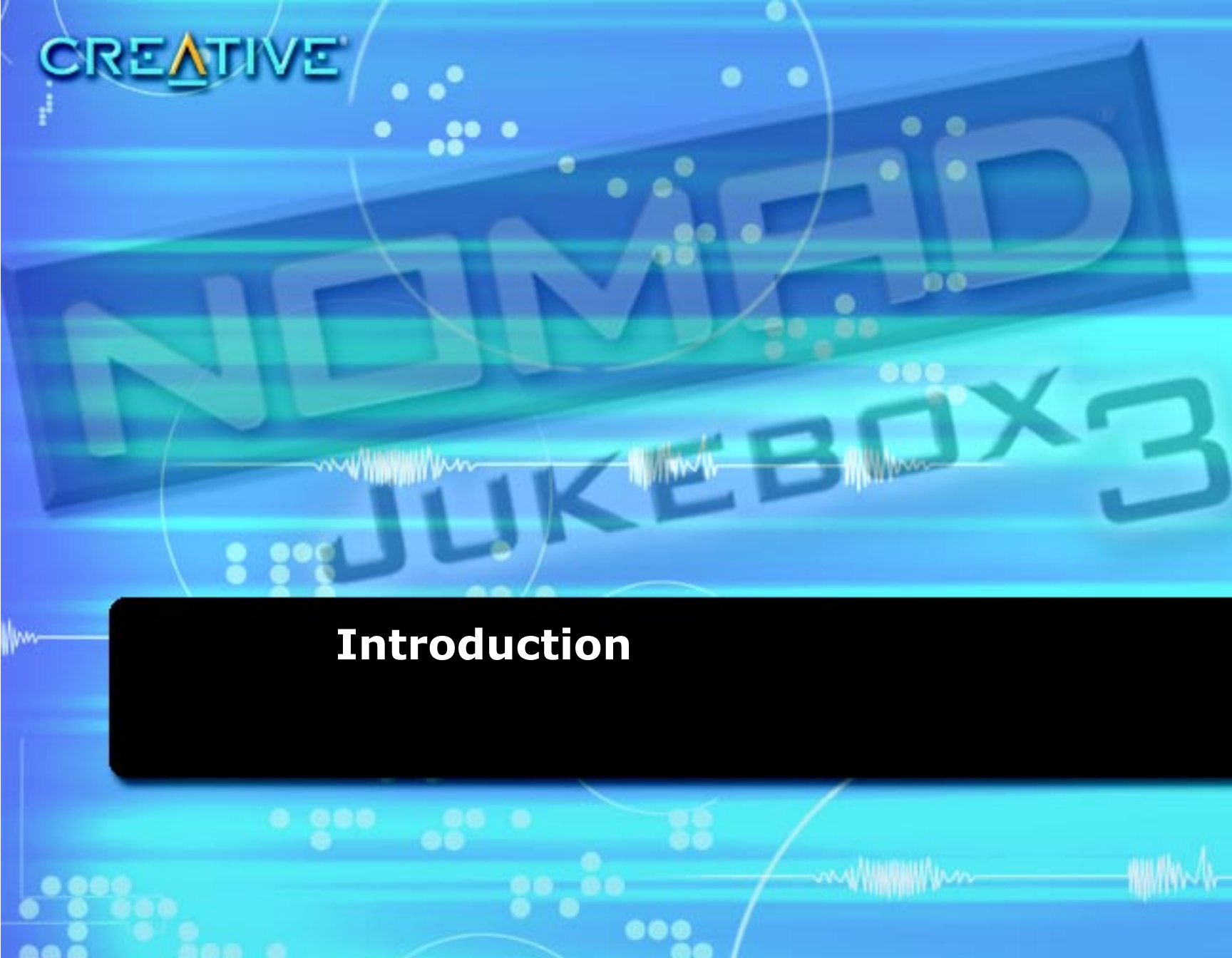
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## Contents



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## Introduction

# Introduction

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## **Creative NOMAD Jukebox 3**

Congratulations on making an excellent decision in purchasing the Creative NOMAD Jukebox 3!

Your new multi-format portable player is lightweight, just about 10 ounces or 289 grams, without batteries. Even though it is no bigger than a normal CD player, you can store thousands of songs in the player's music library. You can create crystal clear MP3, WAV (wave) recordings using the Line-In or optical connector, all without using a PC. Your player also comes equipped with an SB1394™ connector, so you can transfer audio tracks and data quickly and easily. It also has two Line Out connectors, which are ideal for connecting to external speakers, like a Creative Inspire™ 4.1 speaker system.

For more information, see "Using this document" on page iv.

For more information, see "Supplied Software" on page i.

Unlike other hardware-based players, the NOMAD Jukebox 3 features an onboard real-time digital signal processor (DSP) and a real-time effects processor for superior audio playback and customization. Your player also supports EAX™ so that you can enhance your audio with Advanced EQ presets, headphone spatialization, environments and effects. Your portable digital audio player supports multiple audio file formats, including MP3, WMA and WAV.

## **Supplied Software**

The package comes with:

- Creative PlayCenter™ 3
- Creative File Manager
- Creative Audio Stream Recorder
- an interactive tutorial for your NOMAD Jukebox 3
- Adobe Acrobat Reader™

**Creative  
PlayCenter 3**

Creative PlayCenter is your Personal Digital Music Center on the PC. Developed by Creative, PlayCenter allows you to listen, organize, rip, and even create your own audio CDs! it also lets you manage, organize and seamlessly transfer music between Creative portable digital audio players and your PC. With AudioSync™, you can also synchronize music between your PC and NOMAD Jukebox 3.

**Creative File  
Manager**

Creative File Manager is a data file manager for your player. With its intuitive interface, you can drag-and-drop data files between your computer and player. With Creative File Manager, your player doubles as a portable data storage device.

**Creative Audio  
Stream Recorder**

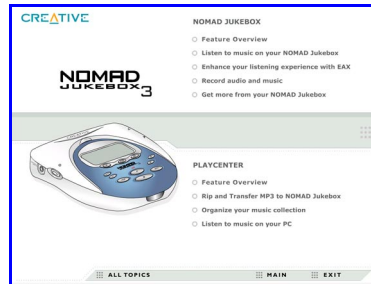
The Creative Audio Stream Recorder (ASR) is a software application that enables you to record streaming audio content from the Internet, and then play it back on your computer or transfer it to your player.

The ASR helps you to record Internet radio programs, sports events, company earning calls, hourly news updates — most of the audio content you can find online. You can specify the URL of the streaming content or select it from the ASR content directory. ASR can also be scheduled.



## Interactive Tutorial

We have included a tutorial designed to guide you step by step around your new player. The tutorial is useful for both new and experienced owners.



## Terminology

If you are not familiar with technology or terms used in this document, you can refer to the "Glossary" on page A-1. Refer to this section to help increase your understanding of your player and the technologies used in its creation.

## **System Requirements**

The applications (software) on the installation CD may have higher requirements for basic functionality. Refer to each application's documentation for details.

- Microsoft® Windows® 98, Windows 98 SE, Windows 2000, Windows ME or Windows XP
- Intel® Pentium® II 200 MHz, AMD®-K6-2® 200 MHz or better processor (Pentium II recommended for MP3 encoding)
- Sound Blaster Live!™, Sound Blaster Audigy™ or Sound Blaster Extigy™ for EAX enhanced MP3 encoding
- CD-ROM drive with digital audio extraction support
- USB, 1394 or SB1394 (found on Sound Blaster Audigy series of audio cards) port
- 64 Megabytes RAM (128 Megabytes recommended)
- 30 Megabytes free hard disk space (more needed for storing audio)
- Internet connection for Internet content downloading and CDDB2™ support (any charges incurred are the responsibility of the user)
- Installed mouse
- SVGA graphics adapter (256 colors, 800 x 600 resolution or better)

## **Additional requirements for Audio Stream Recorder**

- Sound Blaster Live!, Sound Blaster Audigy or Sound Blaster Extigy
- Depending on the audio stream you want to record, at least Real Player™ 7.0, RealOne™ or Windows Media Player 6.0
- Microsoft Internet Explorer 4.0

## **Using this document**

Capital letters are used to refer to buttons on the player or on an application, for example, "Press the MENU button to get to the Jukebox Settings screen."

We also use icons to highlight useful or urgent information for you:



- Tip. This tells you about shortcuts or hints relating to a feature.



- Note. This highlights additional or important information about a feature.



- Caution! This highlights proper usage of your player. Use this information to avoid situations involving risk.



- Warning! This warns you of possible hazards to yourself or your player, which may result in injury or damage.

## Handling the player



This section contains cautionary information that you should take note of.

While your player is quite robust, you should observe a few handling procedures to prolong its life.



- Do not store or use in areas exceeding 45°C or 113°F.



- Do not subject to excessive force or impact.



- Do not expose to heat or incinerate.



- Keep away from excessive moisture.



- Keep away from strong magnetic fields.



- Do not dismantle.

To get more detailed information, see .

## Handling the Battery

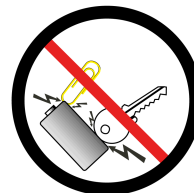


Never modify or disassemble the battery. If there is leakage, stench, discoloration or deformation during charging or use, remove the battery and do not use it again. Clean your hands well before handling food or touching sensitive areas of your body, for example, your eyes.

When charging or handling your player's battery, take note of these precautions:



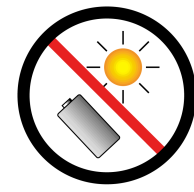
- Do not expose to heat or fire.



- Avoid contact with metal objects like keys or necklaces.



- Do not pierce or crush.



- Store away from direct sunlight.



- Avoid contact with moisture.



- Do not store or use in areas exceeding 45°C or 113°F.

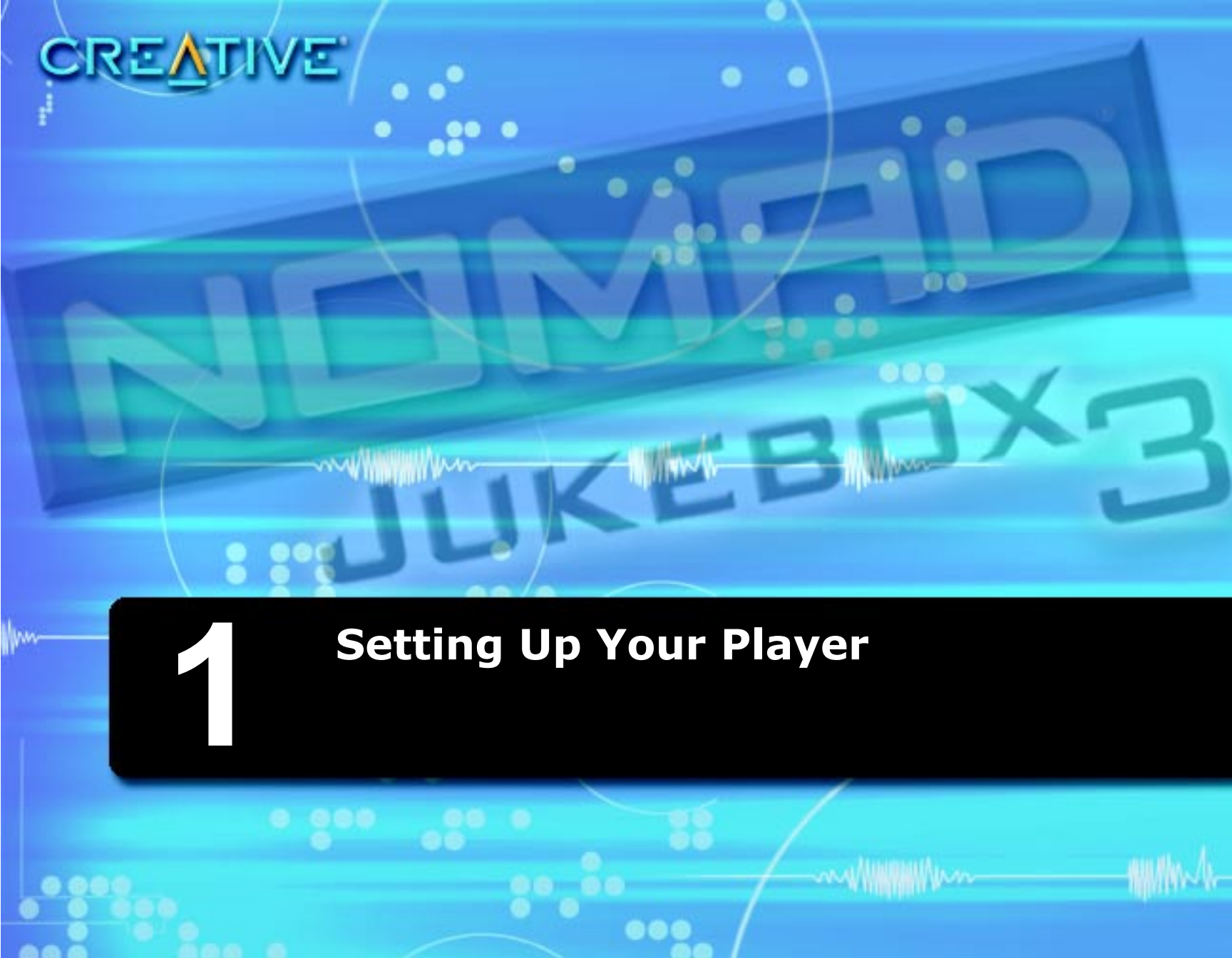
To get more detailed information, see .

## **Website Information**

Visit [www.NOMADworld.com](http://www.NOMADworld.com) regularly for updates and information on:

- firmware updates
- NOMAD accessories
- tips and tricks
- FAQs
- troubleshooting
- documentation updates
- software updates or purchases

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## Setting Up Your Player

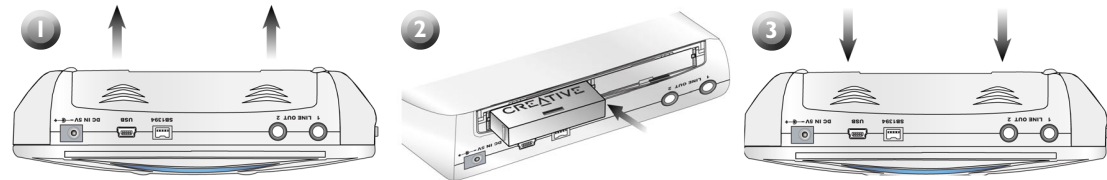
# Setting up your player

This chapter will guide you on setting up your player, after which you should be able to start playing back audio on your player.

## Inserting the battery



Although your player comes with one battery, you can purchase a second battery to enjoy double the playing time.



*Figure 1-1: Inserting the battery in your NOMAD Jukebox 3*

The diagram above shows you how to insert one battery. You can acquire an optional second Creative battery from [www.NOMADworld.com](http://www.NOMADworld.com).

1. Open the battery compartment in the direction of the arrows.
2. Insert the battery as shown.
3. Close the battery compartment.



## Powering your player



Remember to use only the accessories packaged for you. Substitute accessories may damage your player, or worse yet, hurt you.

1. Connect the DC adapter as shown in the diagram.
2. Turn on the power from the power source.



*Figure 1-2: Powering your NOMAD Jukebox 3*

## Charging the battery

The high performance lithium battery supplied with your player needs to be fully charged before you use it. Your player's built-in battery charger should fully charge the battery in 4 hours to obtain the maximum playback time. If you are using two batteries, both batteries should be fully charged in 8 hours.





## How to charge the battery



To charge your player's battery, you should:

1. Insert the uncharged battery as shown in .
2. Connect your player to an DC power outlet as shown in .  
Your player will turn itself on.  
Check the battery icon to see when the battery is fully charged.

## Battery charge status

Your player displays one of the following icons, depending on the battery's charged status or the power source (battery or DC power).

Icon	Power State	Notes
	<ul style="list-style-type: none"> <li>your player is running from DC power only</li> </ul>	
	<ul style="list-style-type: none"> <li>your player is running from battery power only</li> </ul>	<ul style="list-style-type: none"> <li>this battery state icon shows that the battery is fully charged</li> </ul>
	<ul style="list-style-type: none"> <li>your player's battery is good for approximately 6 hours of continuous playback</li> </ul>	<ul style="list-style-type: none"> <li>if using two batteries, approximately 12 hours of continuous playback are available</li> </ul>
	<ul style="list-style-type: none"> <li>your player's battery is good for approximately 3 hours of continuous playback</li> </ul>	<ul style="list-style-type: none"> <li>recharge the battery at the earliest opportunity</li> <li>if using two batteries, approximately 6 hours of continuous playback are available</li> </ul>

Icon	Power State	Notes
	<ul style="list-style-type: none"> <li>your player is running from DC power and is charging the battery</li> </ul>	<ul style="list-style-type: none"> <li>charge the battery fully before disconnecting the player from the DC power outlet</li> <li>while charging, the icon will alternate between this icon and a battery state icon, showing the approximate level of charge</li> </ul>
	<ul style="list-style-type: none"> <li>your player is running from DC power and has finished charging the battery</li> </ul>	<ul style="list-style-type: none"> <li>to use battery power, disconnect the player from the DC power outlet</li> </ul>

For detailed information, refer to .

## Installing Software



You must restart your computer before trying out any of the installed applications.

Your NOMAD Jukebox 3 comes with software that helps you create audio tracks, manage your music library and use your player.

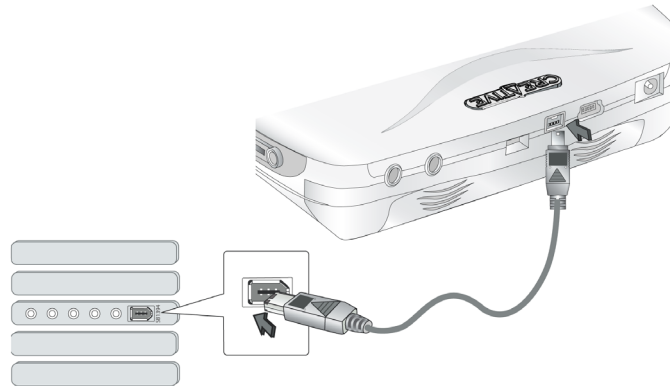
1. Make sure your player is not connected to your computer.
2. Insert the Installation CD into your CD-ROM drive.  
The disc supports Windows AutoPlay mode and starts running automatically. If not, you need to enable your CD-ROM drive's auto-insert notification feature. For more details see .
3. Select your preferred language.
4. Select "Install software for NOMAD Jukebox 3"
5. Click "OK".
6. Click "Next" to register with Creative, so that you will be updated on new developments for your Jukebox.
7. Follow the instructions on the screen.
8. When prompted to restart your computer, leave the CD in the CD-ROM drive.
9. Select "Yes, I want to restart my computer now".
10. Click "Finish".
11. Restart your computer.

## Connecting your player



You can also use a USB cable to connect your NOMAD Jukebox 3 to your computer.

Your NOMAD Jukebox 3 comes with an SB1394 cable for fast data transfers to and from your computer. Be sure that you have installed PlayCenter before connecting your player.

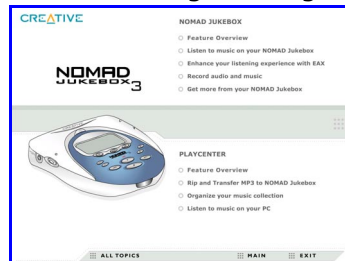


*Figure 1-3: Connecting your NOMAD Jukebox 3 to your computer*

Connect the SB1394 cable to your player and your computer.

## Interactive Tutorial

You can now go through the Interactive Tutorial.



## Turning the player on or off

### To turn your player on

Your player must be unlocked before you can turn it off. To unlock your player, see "Locking and unlocking your NOMAD Jukebox 3" on page 1-8.

1. Press and hold down the POWER button.
2. Keep on holding the POWER button until the startup screen appears. The Now Playing screen appears. Otherwise, check that your player and the DC adapter are properly connected.

### To turn your player off

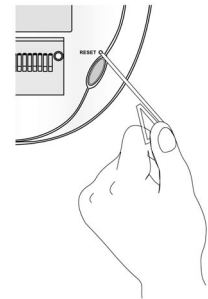
If your player is locked, you must unlock your player.

1. Press any button.
2. In the popup that appears, Scroll Select the check mark.
3. Press and hold the POWER button for at least 5 seconds. The player should turn off.

## Resetting the player

If your player stops responding, reset the player. This should not cause you to lose any data or audio tracks, unless you were in the middle of recording or transferring an audio track. You can check for the audio track in your music library later. See .

**To reset the player:** Insert the end of a thin object (like a straightened paperclip) into the Reset Hole.



## Locking and unlocking your NOMAD Jukebox 3

Locking your NOMAD Jukebox 3 will disable all buttons on the player except for the Scroller. This feature is useful when you don't want any buttons, like STOP, pressed accidentally.

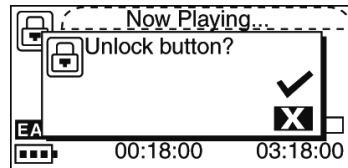
If you press a button while the player is locked, a popup window appears for you to unlock the player. This popup disappears if you don't use the Scroller to make a selection within a few seconds.

### To lock the player

1. Press the MENU button.
2. Scroll Select "Button Lock".
3. Scroll Select the check mark.  
The player is locked.

### To unlock the player

1. Press any button.  
A popup appears.



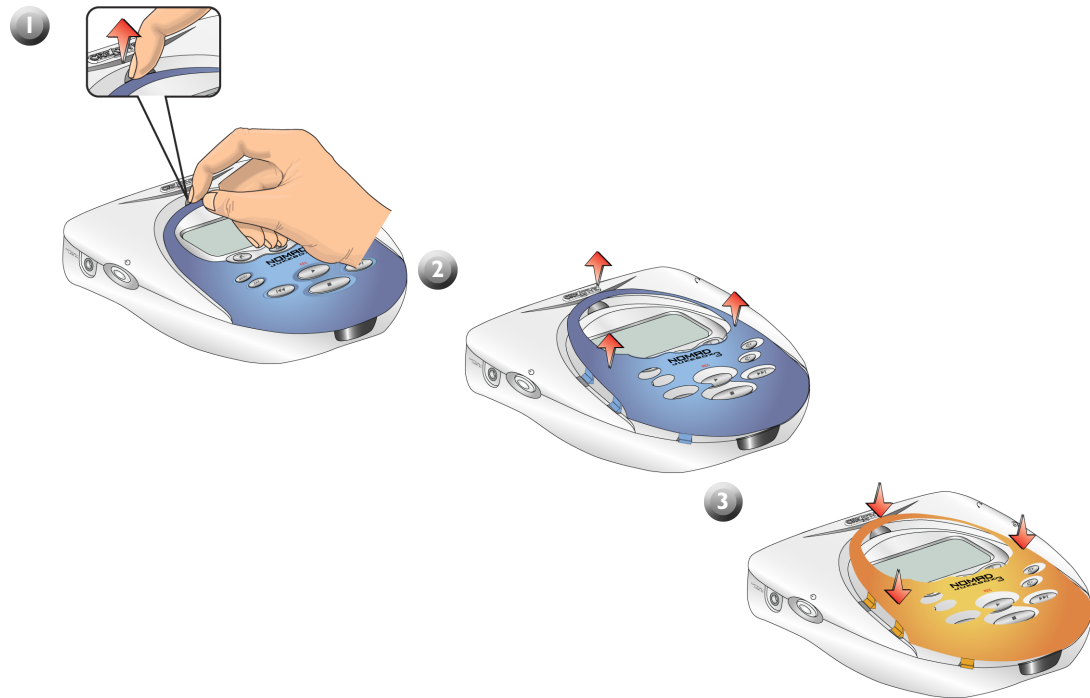
2. Scroll Select the check mark.  
The player is unlocked.

## Changing the faceplate

If you want to change the look of your player, you can purchase a set of differently colored faceplates. Avoid using sharp-tipped objects to detach the faceplate to prevent surface damage to your player.

Go to [www.NOMADworld.com](http://www.NOMADworld.com) to purchase more colored faceplates.

1. Detach the faceplate as shown below.
2. Position the new faceplate and snap it into place.





## Checking Jukebox information



To "Scroll Select", use the Scroller to scroll to the option you want, and select the option by pressing the Scroller. For more information, refer to .

The Jukebox Information screen shows you

- the player's firmware version — so that you know if you can upgrade the firmware
- the total amount of space in your player for storing music or data
- the available space in your player for storing music or data
- the number of tracks stored in your player
- the number of albums stored in your player
- the number of playlists stored in your player

To see this screen

1. Press the MENU button.
2. Scroll Select "Jukebox Settings".
3. Scroll Select "Jukebox Information".

## Configuring your player

Your player offers you many configuration options. You can:

- personalize your Jukebox, see "Personalization" on page 1-11.
- specify power settings, see "Power Settings" on page 1-11.
- set the default language, see "Language" on page 1-12.

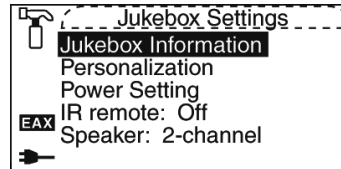
You can also change your startup screen.

[See Creative PlayCenter's Online Help for information on how to change your startup screen.](#)

To configure your player:

1. Press the MENU button.
2. Scroll Select "Jukebox Settings".

3. Scroll Select an option from the menu that appears:

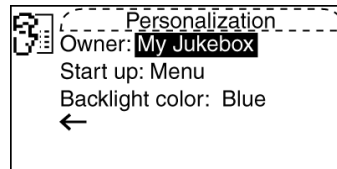


Go to the relevant section in the pages that follow.

## Personalization



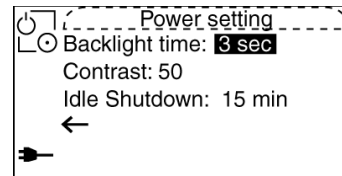
To construct a name, Scroll Select the letters and numbers to form the name. Each letter and number selected is entered into the entry area.



In this screen you can:

- set the owner's name
  - specify the default start screen
  - set the default backlight color, Blue or Green
  - return to the previous screen
1. From the Jukebox Settings screen, Scroll Select "Personalization".
  2. Scroll Select one of the options.
  3. From the menu, Scroll Select a setting or construct a name.

## Power Settings



In this screen, you can:

- adjust the screen backlight duration. A lower number setting conserves battery power for longer playback time.
- set the contrast level for your player's screen. The lower the number, the lower the contrast.
- specify how long the player remains inactive before it automatically shuts down.

1. From the Jukebox Settings screen, Scroll Select "Power Settings".
2. Scroll Select one of the options.
3. From the menu, Scroll Select a setting.

## **Language**

You can change the default language used on your player's screens and input boxes.

### **Menu Language**

This option controls the language in which your player's menus are displayed.

1. From the Jukebox Settings screen, Scroll Select "Menu" under "Language".
2. From the menu, Scroll Select a language.

### **Input Language**

This option controls the language in which you input letters or characters in input boxes, for example, when you search for a track or rename a playlist.

1. From the Jukebox Settings screen, Scroll Select "Input" under "Language".
2. From the menu, Scroll Select a language.

## Testing your player



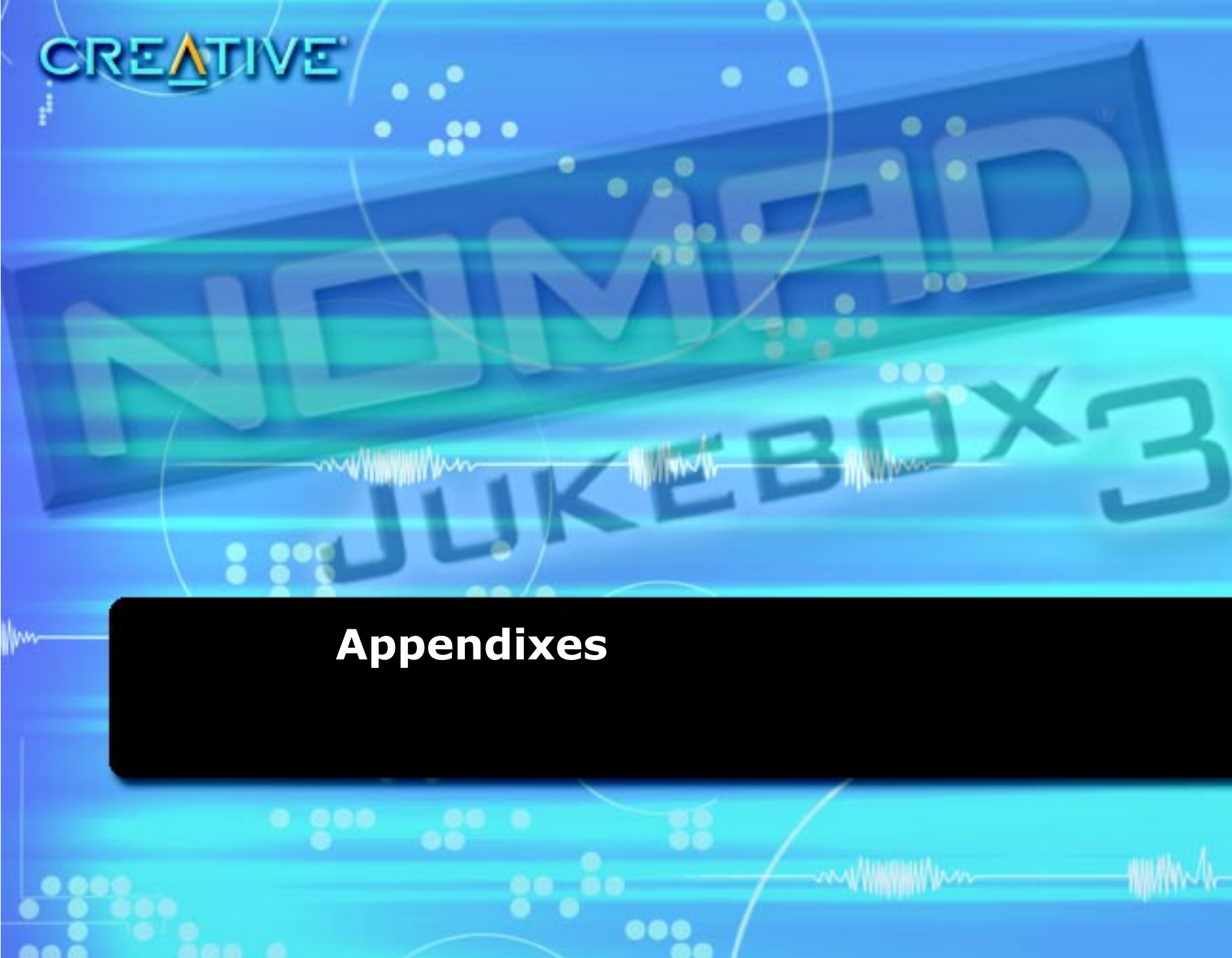
Your player comes with preloaded audio.

After setting up your NOMAD Jukebox 3, you can do a test run to make sure that it is in working order.

1. Make sure that your NOMAD Jukebox 3 is properly connected to the DC adapter and DC power outlet.
2. Connect the headphones or speakers to the player.
3. Turn on the DC power.
4. Press and hold the POWER button on your player.
5. Press the PLAY button.  
You should hear some audio playing.
6. Using the Volume control buttons, adjust the volume to a comfortable level.
7. Press the FORWARD button.  
The next track in the Playing List should play.
8. Press the REVERSE button.  
You should hear the beginning of the current track.
9. Press the REVERSE button twice.  
The previous track in the Playing List should play.
10. Press and hold the FORWARD button.  
You should be skipping forward to other portions of the current track.
11. Press and hold the REVERSE button.  
You should be skipping backward to previous portions of the current track.
12. Press the PAUSE button.  
The audio playback should be paused.
13. Press the PLAY button again to continue playback.
14. Press the STOP button.

This ends the test run. You can now download and enjoy songs on your player.  
Have fun!

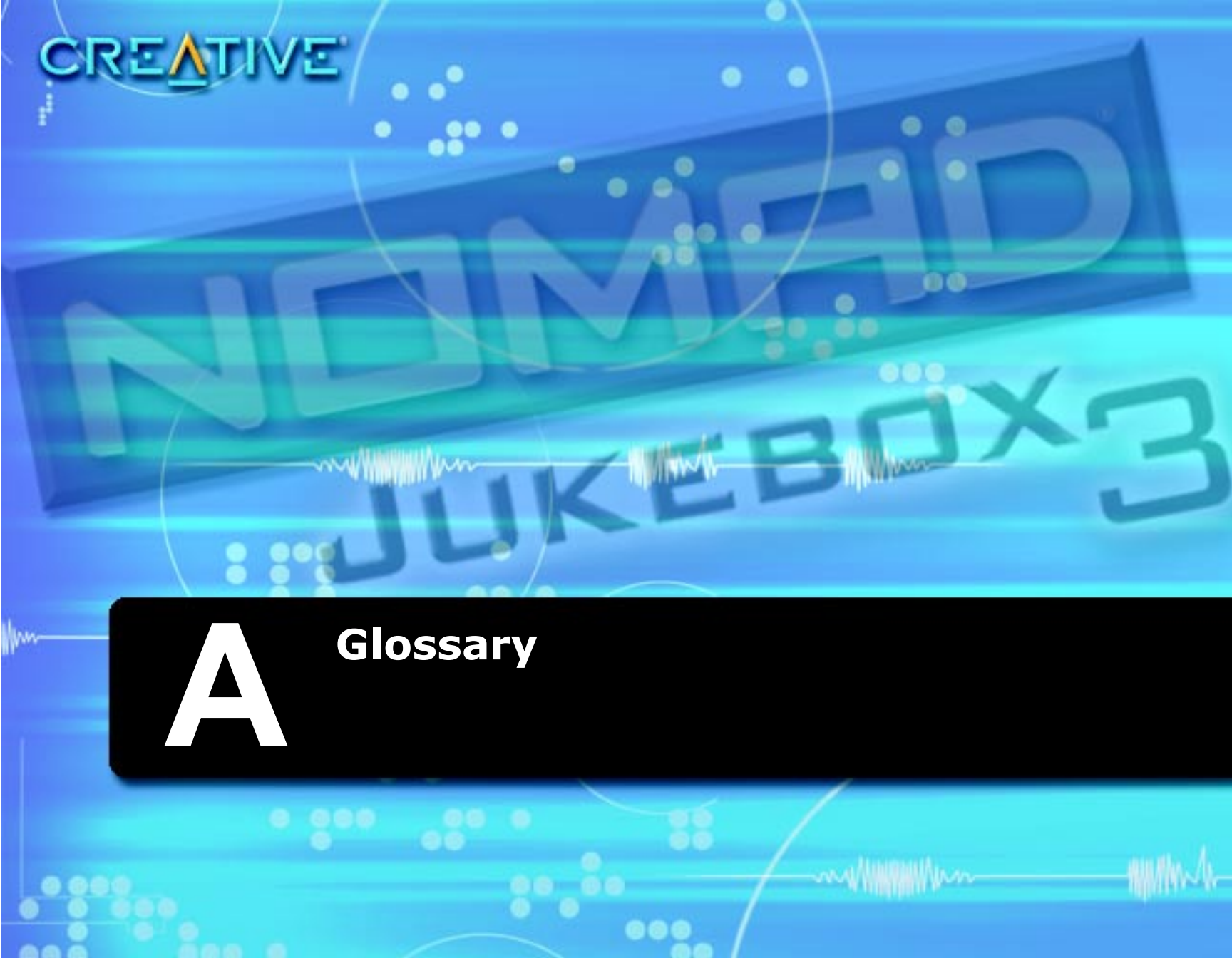
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## Appendixes



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A

Glossary

# Glossary

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## Useful terms to know

This section provides you with a brief explanation of functional terms, technology and abbreviations used or referred to in this manual.

### I394

IEEE 1394 is a high-speed input/output technology for connecting devices to a computer. While similar to USB, IEEE 1394 is more suited to high-speed multimedia devices such as video camcorders, synthesizers, hard disks and other mass data storage media. IEEE 1394 supports data transfer rates of up to 400 Mbps or 400 million bits per second. Like USB, IEEE 1394 offers incredible convenience with "hot swap" capability. This means that you do not have to turn off or restart your computer when attaching or detaching your 1394 device. You can connect up to 63 devices to a single port.

Your player uses Creative's SB1394 standard, which is compliant with IEEE 1394. See "SB1394".

### Advanced EQ

See "Equalization".

### AIFF

The Audio Interchange File Format (AIFF) is an audio file format developed by Apple®. AIFF files tend to be as large as WAV files.

### Analog audio

Non-digital audio. An example of an analog audio source is a cassette tape, or a vinyl record. Making an analog recording from an analog source, for example, duplicating a cassette recording using a cassette recorder, can result in imperfect recordings. Subsequent analog recordings from the first analog recording usually suffer a progressive reduction in quality. See "Digital audio" on page A-4 for a comparison.



<b>Analog Line-In</b>	<p>Record audio from an analog source by using this connector. The connector accepts both analog or optical line-in sources, automatically detecting whether the source is analog or optical.</p> <p>See "Optical Line-In"</p>
<b>AudioSync</b>	<p>AudioSync can synchronize the music libraries in your player and PC. If either library has insufficient space, you can selectively transfer tracks by artist, genre or playlist. You can also set up AudioSync so that either your player or PC is updated. Use an SB1394 or IEEE 1394 cable for lightning-fast transfers.</p>
<b>Bitrate</b>	<p>A bitrate indicates the average number of bits in one second of a digital audio track. MP3 encoders allow you to specify the bitrate when making MP3 files. The higher the bitrate, the better the audio quality. Unfortunately, this also means a larger file size.</p>
<b>Bitstream</b>	<p>A flow of information running through a device like an MP3 player. An MP3 bitstream can be translated back into audio using an MP3 codec, like the codec developed by Fraunhofer IIS-A.</p>
<b>Bookmark</b>	<p>An electronic bookmark for an audio track. If you prefer to play an audio track from the 12th second onwards, make a bookmark at 12 seconds. Bookmarks are useful for long tracks. for example, a 45 minute narrative.</p>
<b>Category</b>	<p>A general grouping of audio tracks, for example, Artist, Album or Genre.</p>
<b>CDDB</b>	<p>This stands for Compact Disc DataBase. The GraceNote<sup>®</sup> Music Recognition Service<sup>RS</sup> is a public information repository for thousands of audio CDs. Many people who listen to audio CDs and music artists submit information about audio CD albums to GraceNote. This service compares, edits and reconciles duplicate entries and combines many submissions into individual records.</p>

PlayCenter helps you get information about your audio CD by accessing this massive database. This saves you the trouble of typing in track information and ensures that track titles appear correctly in your player.

[You can contribute to this database too. See PlayCenter's Online Help for more information.](#)

Codec	This is a short form for COder/DECoder. An MP3 codec is an essential part of MP3 encoders and players. It helps to translate audio into MP3 bitstreams and back.
Confirmation box	A variant of the message box, this box appears for you to confirm an action. For example, if your player is locked, and you press a button, the confirmation box "Unlock Button?" appears. Use the Scroller to make a choice in the box.
Creative Audio Stream Recorder	The Creative Audio Stream Recorder (ASR) is a software application that enables you to record streaming audio content from the Internet, and then play it back on your computer or transfer it to your player. You can record on-demand, or schedule the recording.
Creative File Manager	Creative File Manager is a data file manager for your player. With its intuitive interface, you can drag-and-drop data files between your computer and player. With Creative File Manager, your player doubles as a portable data storage device.
Creative PlayCenter 3	Creative PlayCenter is your Personal Digital Music Center on the PC. Developed by Creative, PlayCenter allows you to listen, organize, rip, and even create your own audio CDs! it also lets you manage, organize and seamlessly transfer music between Creative portable digital audio players and your PC. With AudioSync, you can also synchronize music between your PC and NOMAD Jukebox.

## Creative Sound Blaster Audigy

With the onboard 24-bit Analog-to-Digital Converter (ADC) and Digital-to-Analog Converter (DAC), the Sound Blaster Audigy card delivers high-definition sound of astounding quality with 96 kHz SPDIF support. The Sound Blaster Audigy card, with its Audigy processor, is four times as powerful as its nearest competitor. This enables awesome EAX ADVANCED HD™ technologies for your games and music listening experience.

The SB1394 port provides easy high-speed connectivity to NOMAD portable digital audio players, external CD-RW drives and other IEEE 1394 compatible devices like DV Camcorders, printers, scanners and digital still cameras. You can connect your player to the Audigy's SB1394 jack, without using a separate IEEE 1394 interface card.

## CreativeLink

A unique type of interface for use with other Creative devices.

## Digital audio

When you convert sound waves into binary data (0s and 1s), you are creating digital audio. Using proper cables (for example, optical cables) with a standard encoding bitrate usually results in a perfect copy of the original, with no degradation or noise. See "Analog audio" on page A-1 for a comparison.

## Docking device

Depending on the manufacturer's intention, a docking device can be used for:

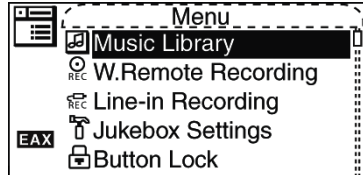
- charging a device (like a mobile phone's desktop charger)
- enhancing a device (like the Creative Docking Station)
- data transfer (like a handheld device's docking station)
- any combination of the above

## DRM

Digital Rights Management (DRM) is a technology which enables the copyright owner of intellectual property, like a digital audio track, to control how you, the listener, can use the file. It is normally used to allow you to download digital audio tracks while preventing you from distributing the files to other people or other devices. With DRM, digital audio tracks contain digital signatures. Creative PlayCenter and your player are DRM-compliant.

<b>EAX</b>	EAX technology delivers advanced audio functionality and performance, adding sophisticated audio processing capabilities, interactive and high-definition sound to digital entertainment. With EAX technology-enabled products, you can shape and customize your audio experience. Certain EAX features provide advanced audio capabilities for music composition and sound design. To fully experience EAX, connect a Creative Inspire 4.1 speaker set to your player, and with EAX enabled, activate 4-channel surround sound in Jukebox Settings.
<b>Encoder</b>	While there are many types of encoders, an MP3 encoder is a tool capable of translating audio into an MP3 bitstream. You need an MP3 encoder to create MP3s.
<b>Environment</b>	A collection of presets, for example, Opera House, Bath Room and Auditorium, that you can choose to enhance your audio.
<b>Equalization</b>	A process that increases or decreases audio at certain frequencies, so that treble, midrange or bass sounds are heightened or reduced. Advanced EQ provides equalizer presets such as Acoustic, Classical and Jazz.
<b>Firmware</b>	<p>The software in your player that allows you to perform numerous functions including playing and recording audio. The firmware can be used with the supplied applications.</p> <p>You can check to see if your player's firmware is up-to-date by checking the firmware version number against the firmware download available at <a href="http://www.NOMADworld.com">www.NOMADworld.com</a>.</p>
<b>Genre</b>	A general category of music, for example, Soundtrack, Acid Rock or Classical.
<b>Gigabyte (GB)</b>	About a thousand million bytes. A 1 GB device can store 1000 MB worth of MP3 files. If your MP3 files are encoded at 128 kbps and each file is about 4 minutes long, a 10 GB device can store about 2500 MP3 files.

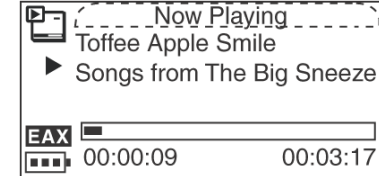
GraceNote	See "CDDDB".
Hard disk	The hard disk on your player is where all of your audio is stored. The hard disk is also known as a Hard Disk Drive.
ID3 tag	ID3 tags are digitally embedded in MP3 files, providing you with information such as the title, album, artist and genre of a song. This information is displayed when the MP3 audio track is played back. ID3 tags can be edited.
InfraRed (IR)	A technology standard for transmitting data without cables, using infrared light waves. Many devices like wireless remote controls use IR.
kbps	Kilobits-per-second. A measure of how good the bitrate is. 128 kbps is the standard bitrate for MP3 files. 128 kbps MP3s are near-CD quality. However, you can encode MP3s at 160 or 192 Kbps.
kHz	This stands for kiloHertz, literally a thousand cycles per second, a measure of audio frequency.
Line-In Recording	A WAV or MP3 file made by recording audio through the Line-In connector of your player. In general, recordings made via the Line-In connector are of better quality than recordings made using the Wired Remote or FM Wired Remote. You would normally use the Line-In connector to record music from CD players or other audio playing devices. If you select a high sampling rate for a WAV recording, the audio quality can easily match that of a MiniDisc recording or a DAT.
List	From a list, you can select one of many options listed. For example, a list can contain available EAX environments, or letters and numbers for you to construct a name for a recording.

<b>Lithium-Ion battery (Li-Ion)</b>	<p>A battery composed of Lithium, a light metal with high electrochemical potential. Lithium batteries are light and store high amounts of electrical energy. Because of this, Lithium-Ion batteries are ideal for portable devices like your player. Lithium-Ion batteries do not use poisonous metals, such as lead, mercury or cadmium, and have no memory effect problems. However, they are more expensive than conventional Nickel-Cadmium (NiCad) and Nickel Metal-Hydride (NiMH) batteries. Your player uses Li-Ion batteries.</p>
<b>Match Volume</b>	<p>This is an EAX feature that keeps the playback volume of all the tracks on your playlist at the same level. This is especially useful as songs are often recorded at different volumes. With this activated, you don't have to keep adjusting the volume from song to song.</p>
<b>Megabyte (MB)</b>	<p>About 1 million bytes. Bytes, megabytes and gigabytes are measures of how much data a storage device can hold. For example, a 3-minute MP3 encoded at standard bitrates is approximately 3MB in size.</p>
<b>Memory Effect</b>	<p>A property of some NiCad batteries that can surface when a battery is not fully used or discharged before it is recharged. This can cause the battery to have a false 'memory' as to how much electrical energy it can store. This results in significantly lower battery levels, even after a full charge.</p>
<b>Menu</b>	<p>A selection of options in your player's screen. For example, this screen shows a menu with four options, Music Library, Recording, Jukebox Settings and Button Lock.</p> 
<b>Message box</b>	<p>A pop-up window that appears to give you information, for example, "Bookmark set at 00:04:23".</p>

<b>MP3</b>	A member of the MPEG compression family, MP3 is a commonly used compressed digital audio format. MP3 encoding transforms digital audio files (like WAV) to provide reasonable audio quality in relatively small file sizes. Recordings made with the Wired Remote are in the MP3 or MP3 format.
<b>Music Library</b>	An organized collection of audio tracks in your player. Tracks are grouped by categories, namely, "All tracks", "Albums", "Artists", "Genres", "Line-In Recordings" and "Voice Recordings".
<b>Nickel-Cadmium (NiCad)</b>	An older type of battery often used for portable devices. Some of these batteries suffer from Memory Effect, and can store less electrical energy than Li-Ion batteries.
<b>Nickel Metal Hydride (NiMh)</b>	An older type of battery often used for portable devices. These batteries do not suffer from Memory Effect problems, and can store about 50% more energy than NiCad batteries, but not as much as Li-Ion batteries.
<b>Now Playing screens</b>	A series of screens—the Playing Track screen and Playing List screen—accessible by pressing the NOW PLAYING button. See "Playing Track screen" and "Playing List".
<b>Optical Line-In</b>	Using a digital audio source with this connector on your player allows you to make digital recordings, eliminating unwanted 'noise' associated with analog recordings. The connector accepts both analog or optical line-in sources, automatically detecting whether the source is analog or optical. See "Analog Line-In".

## Playing Track screen

Shows the track that is being played back or the track that has been selected in the Playing List for playback. See "Playing List" and "Now Playing screens".



## Playing List

The Playing List is like a long line of audio tracks, waiting for their turn to be played. You can choose an album or a playlist of tracks to be played. Their turn comes when the tracks listed before them have been played. In Normal mode, tracks are played in the order that they are queued.



See "Playing Track screen" and "Now Playing screens".

## Playlist

A grouping of audio tracks. Using a playlist, you can create a playback sequence of audio tracks from multiple albums or categories without actually rearranging any audio tracks in the player's Music Library. You can also name a playlist, for example, My Favorite Pop Songs.

## Presets

A collection of EAX settings that you can select to enhance your audio. For example, some of the presets you can choose in Advanced EQ include Acoustic, Classical and Rock.

## Ripping

The process of creating digital audio tracks from an audio CD. Using a CD ripper and an MP3 encoder, you can extract favorite tracks from an audio CD and make MP3 files. You can then transfer the audio tracks over to your player for your enjoyment.

## Sampling Rate

The sampling rate is a measure of how well an audio source is captured as a digital audio file. For example, a normal audio CD has audio sampled at 44.1 kHz.



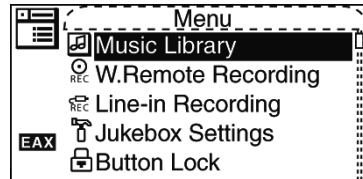
## SB1394

SB1394 is Creative's IEEE-1394 compatible standard for high speed (about 400Mbps at peak) digital audio transfer. Creative's SB1394 standard offers you maximum speed and compatibility with SB1394 peripherals and also provides you with a seamless user experience for transferring massive MP3 collections, DV editing, easy networking and more.

You can connect your player to your computer using the SB1394 cable. This cable can be connected to the Audigy audio card's SB1394 jack or a standard IEEE 1394 interface card. See "1394" on page A-1 for more details about IEEE 1394.

## Screen

The current display on your player. For example, this is the Menu screen:



## Scroll Select

A term for a two-step operation using your player's Scroller. Scroll up or down options in menus and lists, and press the Scroller to select the option.

## SDMI

Secure Digital Music Initiative. Developed by a forum of 200 companies in the worldwide recording industry, SDMI-compliant devices or software can play SDMI encrypted formats, as well as conventional, unencrypted formats. It was developed to allow consumers, like you, convenient access to music in online and emerging digital distribution systems. SDMI promises copyright protection for the artist, and the promotion of new music related technologies. Your player is SDMI-compliant.

## Shock Buffer

This buffer is usually a temporary data storage area. When you carry your player around, it is subjected to many minor bumps and shakes. To give you uninterrupted audio playback, your player uses a five minute shock buffer.

Shuffle	A Play Mode that plays tracks at random from the Playing List. It is almost like waiting in line at a popular nightclub. Sometimes some tracks don't get played at all.
Shuffle Repeat	Just like Shuffle, except that your player continues to select tracks at random to play. Your player will continue doing this until it runs out of battery power, or until you interrupt it.
Smart Volume Management (SVM)	Smart Volume Management evens out the volume 'bumps' in an audio track. Some types of music, for example, Mahler's second symphony, have great contrasts in volume. When you turn up the volume to listen to a quiet portion of the track, you can get deafened and shocked when the louder portions are played. SVM also compensates for ambient noise in your listening environment. Choose "Plane", for example, when you listen to your player while flying, and the audio level is automatically adjusted. You can turn this feature on or off from the EAX menu.
Spatialization	A feature of EAX that changes your perception of audio from a pair of stereo headphones. Choose either Full, Narrow or Wide to suit your listening pleasure.
Time-Scaling	A feature of EAX that allows you to change the speed of audio playback without changing the pitch or distorting the audio quality. For example, you can use this feature to slow down a recording of a speech for easier note-taking. Choose a setting from 0.5x to 1.5x, where 1.0x is normal speed.
USB	USB stands for Universal Serial Bus. It is a moderately high-speed input/output technology for "hot swap" data transfers, meaning that you can connect or disconnect a USB device without turning off your computer.
Voice Recording	Using the Wired Remote or FM Wired Remote, you can make recordings of speeches, discussions and meetings. The recording is in the WAV or MP3 format, and cannot be larger than 2 GB.

**WAV (wave)**

An uncompressed digital audio format, WAV files are often used in systems running Microsoft Windows. Recordings made with the Wired Remote or FM Wired Remote are in WAV or MP3 formats.

**Wired Remote**

An accessory for your player that you can use to access the player's controls without dragging the player out from your bag or pocket.

**Windows Media  
Audio (WMA)**

Microsoft's Windows Media Audio (WMA) format is suitable for lower bitrates but can produce an audio quality that is almost indistinguishable from the original audio when encoded at 128 kbps. Most full-featured player programs and portable players can play WMA files. Some WMA files are protected by a digital signature. See "DRM" on page A-4.



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